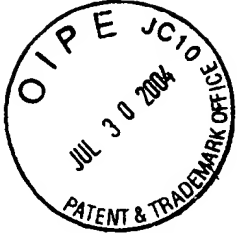


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2133

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CR-1338

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: :
Yedidia et al. : Art Unit: 2133
:
Serial No: 09/858,358 :
:
:
Examined: A. Arnold
:
Filed: May 16, 2001 :
:
Title: EVALUATING AND OPTIMIZING ERROR-CORRECTING CODES USING A
RENORMALIZATION GROUP TRANSFORMATION

EXPRESS MAIL mailing label number:
ED 184244736 US

Date of Deposit: July 30, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL in an envelope addressed to: The Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450

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Clifton D. Mueller
Signature

* * *

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. §1.56(a), Applicant hereby cites the following documents (copies enclosed) listed on the attached copy of Form PTO-1449.

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 checked below:

 1.97(b) This Information Disclosure Statement is filed:

- (1) Within three months of the filing date of a national application; OR
- (2) Within three months of the date of entry of the national stage of an international application; OR
- (3) Before the mailing of a first Office Action on the merits.

No fee or certification is required.

 X 1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:

- (1) A Final Action under 37 CFR 1.113; OR
- (2) A Notice of Allowance under 37 CFR 1.311;

AND is accompanied by either:
(check one)

 X the Certification under 37 CFR
1.97(e) as set out below; OR

 the fee of \$240.00 under 37 CFR
1.17(p).

 1.97(d) This Information Disclosure Statement is filed
after the mailing date of either:

- (1) a Final action under 37 CFR 1.113; OR
- (2) A Notice of Allowance under 37 CFR 1.311;

BUT before payment of the Issue Fee, AND is accompanied
by:

- (1) the Certification under 37 CFR 1.97(e) as
set out below; AND
- (2) Petition is hereby made under 37 CFR
1.97(d) for consideration of this
Information Disclosure Statement; AND,
- (3) Authorization to charge the petition fee
of \$130.00 as set out in 37 CFR 1.17(i).

If this Information Disclosure Statement is being filed
under 37 CFR 1.97(c) or 1.97(d), the undersigned Attorney hereby

certifies that:

X each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of this Statement;

or

— no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, or to the knowledge of the undersigned Attorney after making reasonable enquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing date of this Statement.

CR-1338

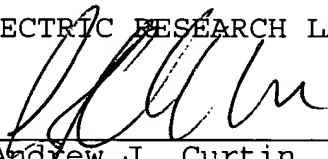
Authorization is hereby given to charge the indicated fee(s)
to Deposit Account No. 50-0749.

Please charge any additional fee due for this paper to
Deposit Account No. 50-0749.

Respectfully submitted,

mitsubishi electric research laboratories

By:



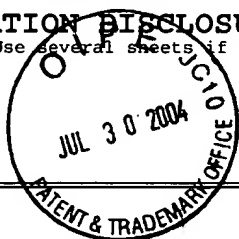
Andrew J. Curtin
Reg. No. 48,485
Attorney for Assignee

Mitsubishi Electric Research Laboratories, Inc.
201 Broadway
Cambridge, Massachusetts 02139
(617) 621-7539

Customer No. 022199

Enclosures

Form PTO-1449 (modified 2/91)	U.S. DEPT OF COMMERCE Patent and Trademark Office	Attorney Docket Number: CR-1338	Serial Number: 09/858,358
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicant: Yedidia et al.	
		Filing date: May 16, 2001	Group art area: 2133



U.S. PATENT DOCUMENTS

Examiner Initial	Patent number	Date	Name	Class	Subclass	Filing date if appropriate

FOREIGN PATENT DOCUMENTS

	Document number	Date	Country	Class	Subclass	Translation	
						YES	NO
	EP1160678A	Dec. 5, 2001	Japan	G06F	17/10	X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1.	Wiberg, N. "Codes and Decoding on General Graphs," Linkoeeping Studies in Science and Technology, no. 440, pp. 1-95, 1996.
2.	Weiss, Y. "Correctness of Local Probability Propagation in Graphical Models with Loops," Neural Computation, MIT Press, vol. 12, no. 1, pp. 1-41, 2000.
3.	Weiss, Y. "On the Optimality of Solutions of the Max-Product Belief-Propagation Algorithm in Arbitrary Graphs," IEEE Transactions on Information Theory, vol. 47, no. 2, pp. 736-744, 2001.
4.	Richardson et al., "The Capacity of Low-Density Parity-Check Codes under Message-Passing Decoding," IEEE Transactions on Information Theory, vol. 47, no. 2, pp. 599-618, 2001.
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Examiner:	Date Considered:
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP .609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.